

Amendment to IMPELLER AND METHOD OF MANUFACTURING SAME
Reuel S. Orocio, inventor
Serial No. 10/047,865
Filed January 15, 2002
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In the Claims:

~~RE~~ Not Entered Claims 1-5 (canceled)

Claim 1. (original) A method of manufacturing a pump
impeller comprising:

forming in a single molding operation a shroud, vanes
and shaft sleeve so as to precisely obtain alignment of an axis of
rotation of said sleeve with a longitudinal center axis of an
annular inlet ring mounted on said shroud where said annular inlet
ring and said sleeve are on opposite sides of said shroud, whereby
during rotation of said impeller smooth, efficient substantially
noise-free operation is obtained because said sleeve is in balance
with said annular inlet ring.

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~~Claim 2. (original) A pump impeller comprising:~~

~~a series of vanes having an outer end which is integrally mounted on a shroud, said shroud having a centrally located annular inlet ring which provides an inlet to an eye of said impeller; and~~

~~a hub integrally connected to an inner end of said vanes, said hub having a sleeve connected thereto, said sleeve having an axis of rotation, said inlet having a longitudinal center axis, said axis of rotation being aligned with said longitudinal center axis, whereby rotation of said impeller produces essentially no vibration with said impeller rotating smoothly, efficiently and substantially noise-free.~~

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Claim 3 (currently amended) A pump impeller comprising:
a series of vanes having an outer end which is
integrally mounted on a shroud, said shroud having a centrally
located annular inlet ring which provides an inlet to an eye of
said impeller;

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a hub integrally connected to an inner end of said
vanes, said hub having a sleeve connected thereto, said sleeve
having an axis of rotation, said inlet having a longitudinal
center axis, said axis of rotation being aligned with said
longitudinal center axis, whereby rotation of said impeller
produces essentially no vibration with said impeller rotating
smoothly, efficiently and substantially noise-free; and

The pump impeller as defined in Claim 2 wherein:
a cover mounted on said hub covering said vanes, said
cover being located opposite said shroud relative to said vanes
substantially enclosing said vanes.

Claim 4. (original) The pump impeller as defined in
Claim 2 wherein:

 said sleeve located on one side of said vanes and said
 shroud being located on the opposite side of said vanes.

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Claim 5¹ (original) The pump impeller as defined in
Claim 4 wherein:

~~said sleeve being at least one inch in length.~~

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Claim 6. (currently amended) The pump impeller as
defined in Claim 2 wherein:

~~said inlet being larger in size than said hub, whereby
because said inlet being is larger than said hub, said pump
impeller can be manufactured in a single molding operation.~~